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**Hendricks et al.**

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(54) **VIRTUAL ON-DEMAND ELECTRONIC BOOK**

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**G06F 15/167** (2006.01)

(52) **U.S. Cl.** ..... **709/214; 709/219**

(58) **Field of Classification Search** ..... 709/206,  
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,860,873 A 1/1975 Ringstad

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2044574 12/1992

(Continued)

OTHER PUBLICATIONS

Soloviev, Valery; ("Prefetching in segmented disk cache for multi-disk systems") Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference; May 1996.\*

(Continued)

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(57) **ABSTRACT**

An electronic book selection and delivery system distributes text to subscribers. The system provides for on-demand and virtual on-demand delivery of electronic books. Specified electronic books may be broadcast to a set of subscribers. Alternatively, a first section of the specified electronic books may be broadcast. A second section of each of the electronic books is then available for later delivery, upon order by a subscriber. The second sections, as well as first sections, and true on-demand electronic books may be loaded into one or more queues. The queues may then be emptied based on a priority model. Electronic books in an on-demand queue may be given priority for delivery over electronic books in other queues.

**15 Claims, 53 Drawing Sheets**

